

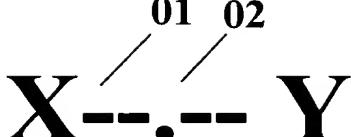
X  Y

FIG. 1a

V2.03R

FIG. 1b

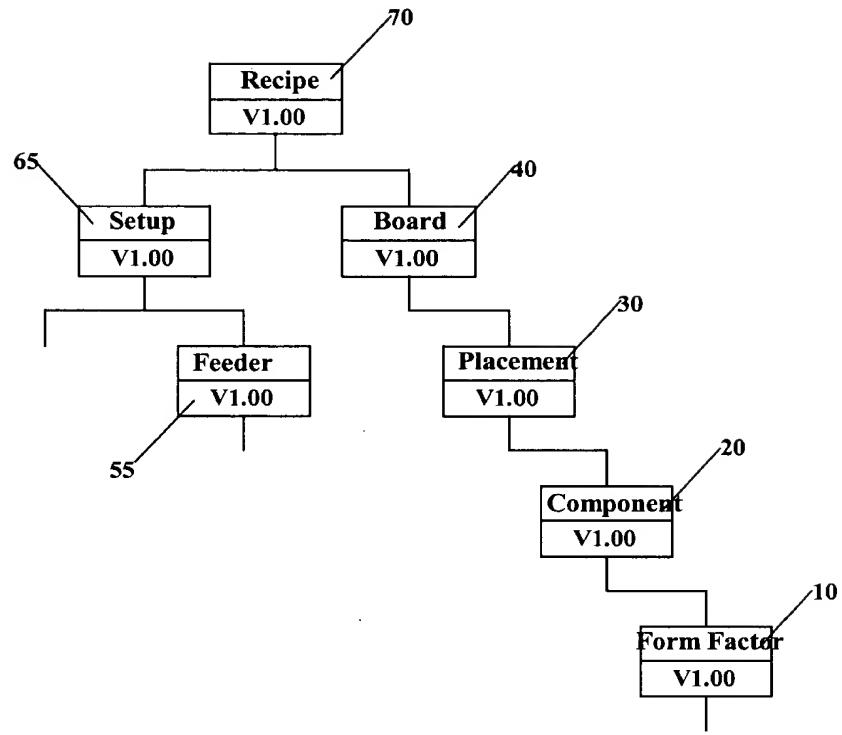


FIG. 2a

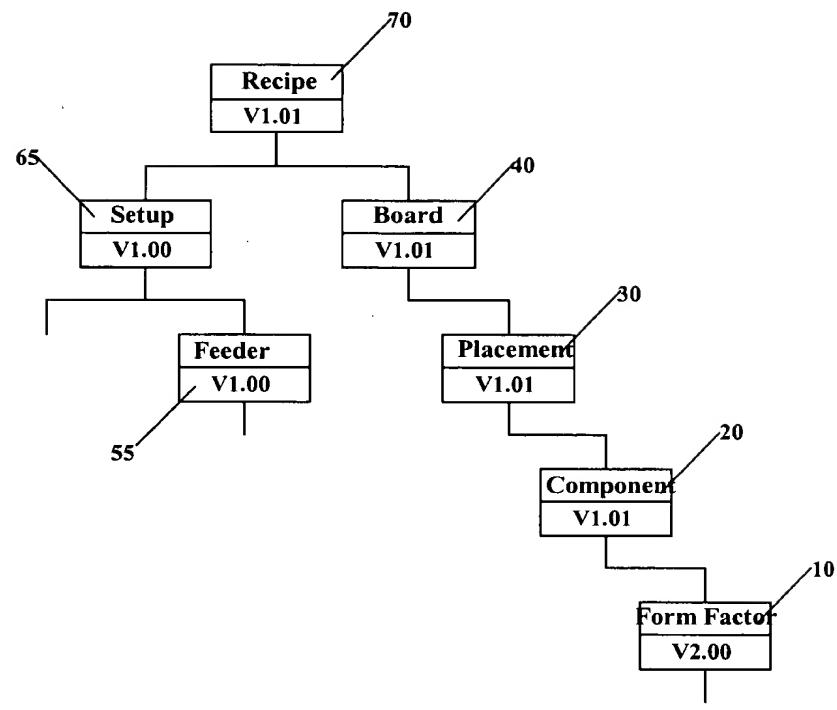


FIG. 2b

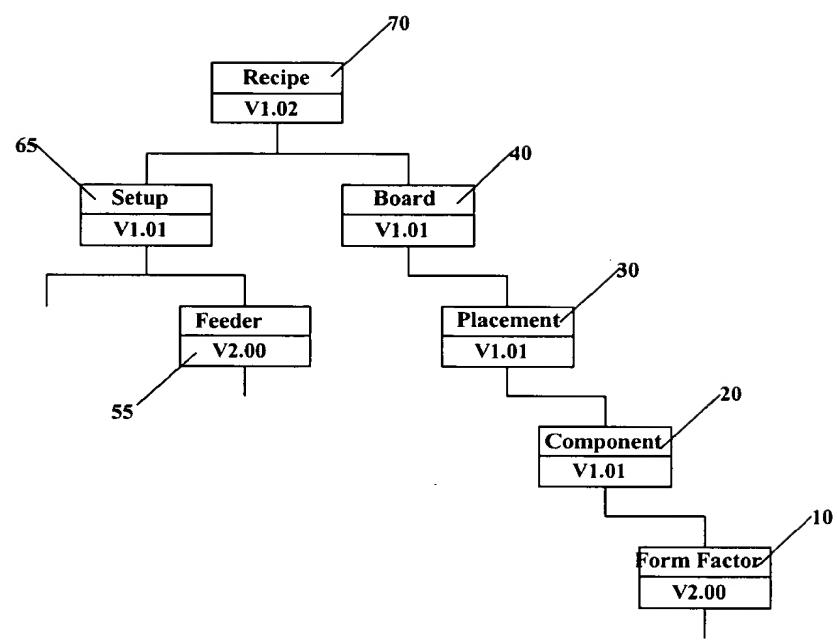


FIG. 2c

VERSION TRACKING ON A SINGLE LINE

| Event | User | Action | Object | Name | Version |
|-------|------------------|--|------------------------|-----------------|------------------|
| 1 | Eng/Op | Programs a board | Recipe -1 | Board | V1.00 |
| 2 | Eng/Op | Modifies the same board | " | " | " |
| 3 | Eng/Op | Downloads Recipe-2 for Smartphone line | Recipe -1 Recipe -2 | Board SPLine | " " |
| 4 | LINE... | Runs board & requests validation | " | " | " |
| 5 | Eng/Op | Checks board & finds error | Recipe -1 | Board | |
| 6 | Eng/Op | Corrects program | " | " | " |
| 7 | Eng/Op | Downloads recipe | Recipe -1 Recipe -2 | Board SPLine | " " |
| 8 | LINE... | Runs board & requests validation | " | " | " |
| 9 | Eng/Op | Checks board and Releases it | Recipe -1 Recipe -2 | Board SPLine | V1.00R V1.00R |

| | | | | | |
|----|---|--|-----------------------------------|---------------------------|----------------------------|
| 10 | At a later time, Eng/Op wants to modify sub-object SOT23 | | Package Form | SOT 23 | V1.00R |
| 11 | Eng/Op Modifies SOT23 | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00 V1.01 V1.01 |
| 12 | Downloads Recipe-2 and runs board | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00 V1.01 V1.01 |
| 13 | LINE... Runs board & requests release of Recipe-1/2 (line/board) | | " | " | " |
| 14 | Eng/Op Checks pkg.& validates it, which is equivalent to releasing it for a single line. | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00R V1.01R V1.01R |

| | | | | | |
|----|--|--|-----------------------------------|---------------------------|----------------------------|
| 15 | At a later time, Eng/Op downloads program | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00R V1.01R V1.01R |
| 16 | LINE... Runs board with no modifications | | " | " | " |

| | | | | | |
|----|---|---|-----------------------------------|---------------------------|----------------------------|
| 17 | At a later time, Eng/Op downloads a different recipe (3) with the same SOT 23 as modified earlier in V1.01. | | Recipe-3 | Pocket PC | V1.00R |
| 18 | Eng/Op finds problem and differently modifies SOT23 again | | Recipe-3 Pkg.Form2 | Pck.PC SOT 23 | V1.01 V3.0 |
| 19 | Eng/Op downloads program to line | | " | " | " |
| 20 | LINE... Runs board & requests release | | " | " | " |
| 21 | Eng/Op Checks board and Releases it | | Recipe-3 Pkg.Form2 | Pck.PC SOT 23 | V1.01R V3.0R |
| 22 | SYSTE M | Automatically updates recipes at the Enterprise level | Pkg. Form Recipe-1 Recipe-3 | SOT 23 Board Pck.PC | V3.00R V1.02R V1.02R |

Fig. 3

VERSION TRACKING IN A MULTIPLE-LINE FACTORY

| Step | User | Action | Object | Name | Version |
|------|------------------|---|------------------------|-----------------|------------------|
| 23 | Engineer | Programs a board | Recipe -1 | Board | V1.00 |
| 24 | Engineer | Modifies the same board | " | " | " |
| 25 | Engineer | Downloads Recipe-2 for Smartphone line | Recipe -1 Recipe -2 | Board SPLine | " " |
| 26 | LINE... | Runs board & asks Operator to validate recipe/board | " | " | " |
| 27 | Operator | Checks board & finds error | Recipe -1 | Board | |
| 28 | Operator | Corrects program | " | " | " |
| 29 | Operator | Downloads recipe & runs board | Recipe -1 Recipe -2 | Board SPLine | " " |
| 30 | LINE... | Runs board & asks Operator to validate recipe/board | " | " | " |
| 31 | Operator | Checks board and validates it | Recipe -1 Recipe -2 | Board SPLine | V1.00V V1.00V |

| | | | | | |
|----|---|--|-----------------------------------|---------------------------|----------------------------|
| 32 | At a later time, Operator finds some issues on SOT23 | | Package Form | SOT 23 | V1.00R |
| 33 | Operator Modifies SOT23 | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00 V1.01 V1.01 |
| 34 | Operator Downloads recipe for Smartphone Line | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00 V1.01 V1.01 |
| 35 | LINE... | | " | " | " |
| 36 | Operator Checks board and Validates it | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00V V1.01V V1.01V |

| | | | | | |
|----|--|--|-----------------------------------|---------------------------|----------------------------|
| 37 | Engineer informed of modification | | | | |
| 38 | Engineer approves modification & Releases SOT 23 | | Package Form | SOT 23 | V2.00R |
| 39 | Operator Downloads to different line Released objects are also released on a different line, validated objects have to be validated again | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00R V1.01 V1.01 |
| 40 | LINE 2 Runs board and asks operator to validate recipe/board | | | | |
| 41 | Operator checks program and validates it | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00R V1.01V V1.01V |
| 42 | Engineer checks program and releases it | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00R V1.01R V1.01R |
| 43 | Operator Downloads program to a third line | | Pkg. Form Recipe-1 Recipe-2 | SOT 23 Board SPLine | V2.00R V1.01R V1.01R |
| 44 | Line 3 Runs board since it is a released program | | | | |

Fig. 4

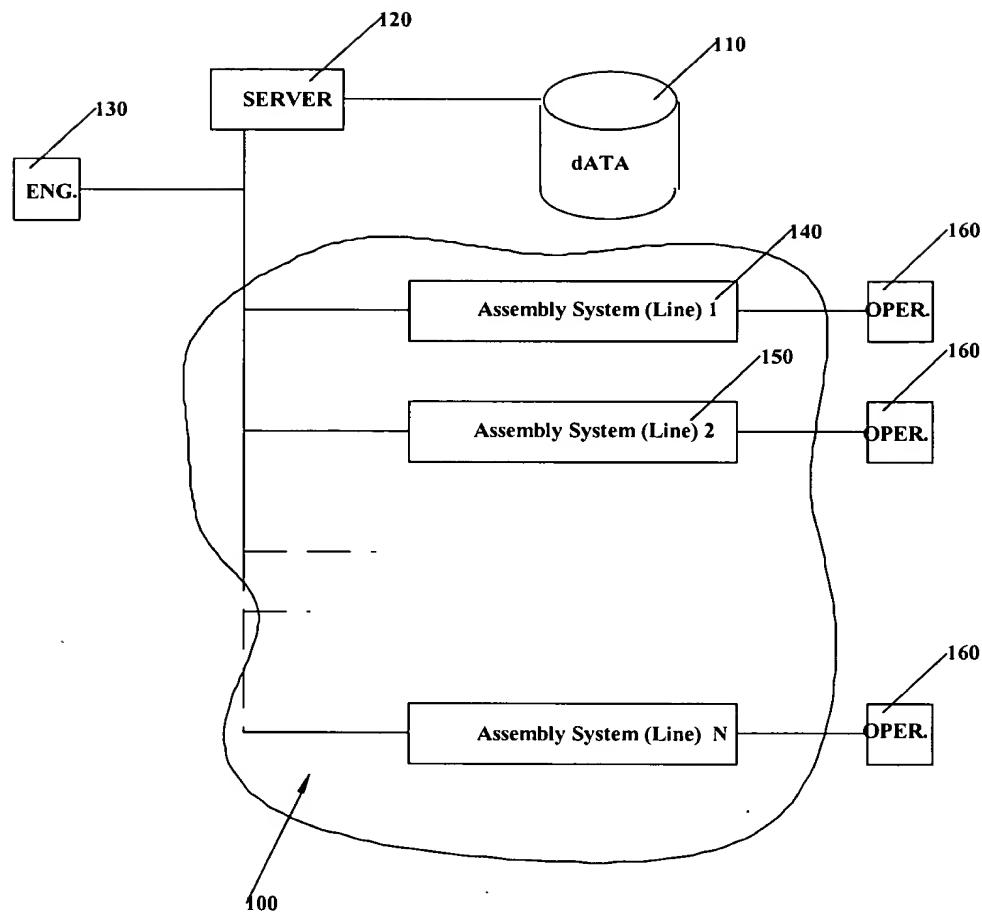


FIG. 5